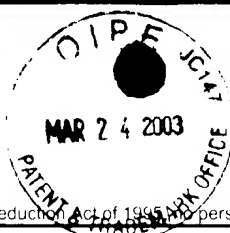


#34



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	08/963,368	
			Filing Date	November 3, 1997	
			First Named Inventor	NOLAN, GARRY P.	
			Art Unit	1639	
Examiner Name	WESSENDORF, TERESA D.				
Attorney Docket Number	RIGL-004DIV				
Sheet	1	of	3		

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>3</sup> (if known)				
		4,618,578		10-1986	Burke <i>et al.</i>	
		4,980,281		12-1990	Housev <i>et al.</i>	
		5,266,464		11-1993	Housev <i>et al.</i>	
		5,650,489		07-1997	Lam <i>et al.</i>	
		5,688,655		11-1997	Housev <i>et al.</i>	
		5,698,396		12-1997	Pfrendschuh	
		5,747,334		05-1998	Kay <i>et al.</i>	
		5,763,192		06-1998	Kauffman <i>et al.</i>	
		5,770,434		06-1998	Huse	
		5,814,476		09-1998	Kauffman <i>et al.</i>	
		5,817,483		10-1998	Kauffman <i>et al.</i>	
		5,824,514		10-1998	Kauffman <i>et al.</i>	
		5,840,479		11-1998	Little <i>et al.</i>	
		5,877,007		03-1999	Housev <i>et al.</i>	
		5,935,823		08-1999	Fowlkes <i>et al.</i>	
		5,955,275		09-1999	Kamb <i>et al.</i>	
		6,153,380		11-2000	Nolan <i>et al.</i>	
		6,194,544		02-2001	Huffman <i>et al.</i>	

FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>2</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP 0 440 146 A2	01-1991	Little <i>et al.</i>		
		EP 0 557 897 A1	09-1993	Dillon <i>et al.</i>		
		WO 93/03143 A1	02-1993	Anderson <i>et al.</i>		
		WO 94/18219 A1	08-1994	Barbas <i>et al.</i>		
		WO 94/20608 A1	09-1994	Hodgson		
		WO 94/29469 A2	12-1994	Nabel <i>et al.</i>		
		WO 95/11998 A1	05-1995	Wang <i>et al.</i>		

Examiner Signature	1	Date Considered	
--------------------	---	-----------------	--

<sup>1</sup>EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St 3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>7</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

MAR 24 2001

PTO SB 08A (10-01)

Approved for use through 10/31/2002 OMB 0651-0031  
U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person shall be required to respond to a collection of information unless it contains a valid GMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	08/963,368
		Filing Date	November 3, 1997
		First Named Inventor	NOLAN, GARRY P.
		Group Art Unit	1639
		Examiner Name	WESSENDORF, TERESA D.
Sheet 2 of 3	Attorney Docket Number	RIGL-004DIV	

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		CWIRLA, S. <i>et al.</i> , "Peptides on Phage: A vast library of peptides for identifying ligands" PROC. NATL. ACAD. SCI. USA, Vol. 87, August 1990, pp. 6378-6382.	
		DUBE <i>et al.</i> , "Selection of new biologically active molecules from random nucleotide sequences." Gene Vol. 137, Aug 1993, pp. 41-47.	
		DUENAS, M. <i>et al.</i> , "Clonal Selection and Amplification of Phage Displayed Antibodies by Linking Antigen Recognition and Phage and Phage Replication", BIO/TECHNOLOGY, Vol. 12, Oct. 1994, pp. 999-1002.	
		FURKA, A. <i>et al.</i> , "General method for rapid synthesis of multi-component peptide mixtures", INT. J. PEPTIDE PROTEIN RES., 37, 1991 pp. 487-493.	
		GISSEL, B. <i>et al.</i> , "Identification of Avidin and Streptavidin Binding Motifs Among Peptides Selected from a Synthetic Peptide Library Consisting solely of D-Amino Acids", JOURNAL OF PEPTIDE SCIENCE, Vol. 1, 1995, pp. 217-226.	
		HOUGHTEN, R. <i>et al.</i> , "Generation and use of synthetic peptide combinatorial libraries for basic research and drug discovery" NATURE, Vol. 354, 7 Nov. 1991, pp. 84-86.	
		KARTTUNEN <i>et al.</i> , Detection of rare antigen-presenting cells by the lacZ T-cell activation assay suggests an expression cloning strategy for T-cell antigens. PROC. NATL. ACAD. SCI. USA, Vol. 89, 1992, pp. 6020-6024.	
		KAUFFMAN, S. <i>et al.</i> , "The NK Model of Rugged Fitness Landscapes And Its Application to Maturation of the Immune Response" J. THEOR. BIOL., Vol. 141(2), 1989, pp. 211-245.	
		KAUFFMAN, S. <i>et al.</i> , "Toward a General Theory of Adaptive Walks on Rugged Landscapes", J. THEOR. BIOL. Vol. 128(1), 1987, pp. 11-45.	
		LAM, K. <i>et al.</i> , "A new type of synthetic peptide library for identifying ligand-binding activity", NATURE Vol. 354, 7 Nov. 1991, pp. 82-84.	
		LONG, E. <i>et al.</i> , "Invariant Chain Prevents the HLA-DR Restricted Presentation of a Cytosolic Peptide", THE JOURNAL OF IMMUNOLOGY, 153, 1994, pp. 1487-1494.	
		LUND, A. <i>et al.</i> , "Increased cloning efficiency by temperature cycle ligation", NUCLEIC ACIDS RESEARCH, Vol. 24, No. 4, 1996, pp 800-801.	
		MALNATI, M. <i>et al.</i> , "Processing pathways for presentation of cytosolic antigen to MHC class II-restricted T cells", NATURE Vol. 357, 25 June 1992, pp. 702-704.	
		MILLER, A.D. <i>et al.</i> , "Improved Retroviral Vectors for Gene Transfer and Expression", BioTechniques, Vol. 7, No. 9, 1989, pp. 980-990.	
		MURPHY, A. <i>et al.</i> , "pλzd39: A new type of cDNA expression vector for low background, high efficiency directional cloning", NUCLEIC ACIDS RESEARCH, Vol. 19, No. 12, (1991), pp. 3403-3408.	

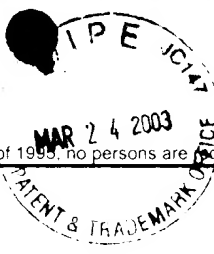
Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609 Draw line through citation if not in conformance and not considered Include copy of this form with next communication to applicant

\*Applicant's unique citation designation number (optional) \*Applicant is to place a check mark here if English language Translation is attached

Burden Hour Statement This form is estimated to take 2.0 hours to complete Time will vary depending upon the needs of the individual case Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO Assistant Commissioner for Patents, Washington, DC 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<div style="text-align: center;">  </div>		<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number		08/963,368		
		Filing Date		November 3, 1997		
		First Named Inventor		NOLAN, GARRY P.		
		Group Art Unit		1639		
		Examiner Name		WESSENDORF, TERESA D.		
Sheet	3	of	3	Attorney Docket Number		RIGL-004DIV

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SCHUMACHER, T <i>et al.</i> , "Synthetic peptide libraries in the determination of T cell epitopes and peptide binding specificity of class I molecules", EUR. J. IMMUNOL. (Germany), Vol. 22 (6), June 1992, pp. 1405-12.	
		SCOTT, J., "Discovering peptide ligands using epitope libraries", TIBS 17, (1992), pp. 241-245.	
		SEED, B. <i>et al.</i> , "Molecular cloning of the CD2 antigen, the T-cell erythrocyte receptor, by a rapid immunoselection procedure", PROC. NATL. ACAD. SCI. USA, Vol. 84, May 1987, pp. 3365-3369.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.